

Student Name: _____

Score: _____

Product Rule Worksheet

Sheet 3

Rewrite the following as single exponent using product rule:

Work Space

Example: $b^5b^7 = b^{5+7} = b^{12}$

$x^3x^5 =$ _____

$c^4c^9 =$ _____

$a^9a^5a^3 =$ _____

$y^1y^0y^2y^3 =$ _____

$x^4x^4 =$ _____

$z^3z^7z^{12} =$ _____

$a^2a^4a^6a^8 =$ _____

$s^3s^6s^9 =$ _____

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Answer key

Product Rule Worksheet

Sheet 3

$$x^3x^5 = x^8$$

$$c^4c^9 = c^{13}$$

$$a^9a^5a^3 = a^{17}$$

$$y^1y^0y^2y^3 = y$$

$$x^4x^4 = x^8$$

$$z^3z^7z^{12} = z^{22}$$

$$a^2a^4a^6a^8 = a^{20}$$

$$s^3s^6s^9 = s^{18}$$

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